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Information Recording Medium, Reproducing Apparatus and
Information Recording Medium Managing Method

Hon. Commissioner of Patents and Trademarks,
Washington, D.C. 20231

SIR:

CERTIFIED TRANSLATION

I, Chiharu Takahashi, am an official translator of the Japanese language into the English language and I hereby certify that the attached comprises an accurate translation into English of Japanese Application No. Hei-11-301871, filed on October 25, 1999.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Signed this on the 30th day of May, 2005

Chiharu Takahashi

Chiharu Takahashi



JAPAN PATENT OFFICE

This is to certify that the annexed is a true copy of the
following application as filed with this Office.

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[Title of the Invention] Information Recording Medium
Reproducing Method, Information Recording Medium, Reproducing
Apparatus and Information Recording Medium Managing Method

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[Title of the Invention] Information Recording Medium
Reproducing Method, Information Recording Medium, Reproducing
Apparatus and Information Recording Medium Managing Method

[Claims]

[Claim 1]

A method of reproducing an information recording medium
recording enciphered data, the method characterized by
comprising:

accessing a predetermined server according to an address
recorded on the information recording medium; and

deciphering the data recoded on the information
recording medium by means of key data issued from the server.

[Claim 2]

A method of reproducing an information recording medium
according to claim 1, wherein

the address is of data specifying the server and a page
corresponding to the information recording medium,

the method being to access a page corresponding to the
information recording medium according to the address and
acquire a corresponding one of the key data.

[Claim 3]

A method of reproducing an information recording medium
according to claim 1, wherein the information recording medium
has

the enciphered data recorded in unit of a file,
that is enciphered to be deciphered respectively by the
corresponding ones of the key data, in unit of each file or
in unit of a plurality of files,

to record identification data specifying the file or the
plurality of files,

the method being to decipher a corresponding one of the
file or the plurality of files, on a basis of the identification
data.

[Claim 4]

An information recording medium recorded with data
enciphered to be deciphered by the key data issued by a
predetermined server, the medium characterized by:

recording an address required for accessing the server.

[Claim 5]

An information recording medium according to claim 4,
wherein the address

is of data specifying the server and a page corresponding
to the information recording medium.

[Claim 6]

An information recording medium according to claim 4,
having

the enciphered data recorded in unit of a file,
that is enciphered to be deciphered respectively by the
corresponding ones of the key data in unit of each file or in

unit of a plurality of files,

to record identification data specifying the file or the plurality of files.

[Claim 7]

A reproducing apparatus for reproducing an information recording medium recorded with enciphered data, the apparatus comprising:

access means for accessing a predetermined server according to an address recorded on the information recording medium; and

deciphering means for deciphering data recorded on the information recording medium by means of key data issued from the server.

[Claim 8]

A reproducing apparatus according to claim 7, wherein the address is of data specifying the server and a page corresponding to the information recording medium,

the information recording medium reproducing method being to access a page corresponding to the information recording medium according to the address and acquire a corresponding one of the key data.

[Claim 9]

A reproducing apparatus according to claim 7, wherein the information recording medium has

the enciphered data recorded in unit of a file,

that is enciphered to be deciphered respectively by the corresponding ones of the key data in unit of each file or in unit of a plurality of files,

to record identification data specifying the file or the plurality of files,

the apparatus being to decipher a corresponding one of the file or the plurality of files, on a basis of the identification data.

[Claim 10]

An information recording medium managing method for managing an information recording medium recorded with enciphered data, the method characterized by:

issuing key data for deciphering the data by an access according to an address recorded on the information recording medium.

[Claim 11]

An information recording medium managing method according to claim 10, wherein

the address is of data specifying the server and a page corresponding to the information recording medium,

the method being to issue a corresponding one of the key data for each page.

[Claim 12]

An information recording medium managing method according to claim 10, wherein the information recording

medium has

the enciphered data recorded in unit of a file,
that is enciphered to be deciphered respectively by the
corresponding ones of the key data in unit of each file or in
unit of a plurality of files,

to record identification data specifying the file or the
plurality of files,

the method being to issue the key data corresponding to
the file or the plurality of files corresponding to a selecting
operation, in response to the selecting operation of a user.

[Claim 13]

An information recording medium managing method
according to claim 10, wherein a billing process is executed
correspondingly to an issuance of the key data.

[Detailed Description of the Invention]

[0001]

[Technical Field to Which the Invention Belongs]

The present invention relates to an
information-recording-medium reproducing method, information
recording medium, reproducing apparatus and
information-recording- medium managing method which is
applicable to a system for reproducing an optical disk recorded
with pieces of music, for example. The present invention is
to access a predetermined server according to an address
recorded on an information recording medium. By issuing key

data from the server and deciphering the data recorded on the information recording medium, the pleasing tune heard at a concert hall can be again listened to simply and positively.

[0002]

[Prior Art]

Conventionally, in music, provision is possible for user's utilization through such media as optical disks. Namely, in what is called albums, a series of tunes selected by an artist, a record company or the like are recorded to and produced on an optical disk. Contrary to this, in single disks, a desired piece of music is recorded from the album thus produced onto an optical disk into production.

[0003]

Contrary to this, there is a service recently inaugurated to distribute music via the Internet and provide it for use of the user.

[0004]

[Problem that the Invention is to Solve]

In the meanwhile, there are often cases that the user desires to again listen to a musical tune once listened to at a concert hall, etc. In this case, purchasing an album in order to listen to the tune often results in purchasing those including unnecessary tunes. Besides, for the user who rarely purchases such a kind of media, it requires a troublesome effort even to find out an album including an objective tune.

[0005]

Contrary to this, it can be considered to purchase what is called a single disk for listening to such a pleasing tune. However, there is a possible case that such a tune is not under supply in the form of single disk. Meanwhile, the effort to find out a single disk including an objective tune results in a greater difficulty than in the case of albums.

[0006]

Contrary to this, the distribution of a musical tune over the Internet allows to download such a pleasing tune only for enjoyment. In this case, however, there is a need to search for a homepage for distributing a desired tune from among a number of homepages and further to select the desired tune out of many tunes concerned with that homepage, thus resulting in a necessity to carry out much troublesome effort. Besides, there is a problem of requiring time in download.

[0007]

The present invention, made in consideration of the above-mentioned points, aims at providing an information-recording-medium reproducing method, information recording medium, reproducing apparatus and information-recording medium-managing method which allows for simply and positively listening again to a pleasing tune heard at a concert hall, for example.

[0008]

[Means for Solving the Problem]

In order to solve the problem, the invention in claim 1 is an application to a reproducing method for reproducing an information recording medium recorded with enciphered data, the method comprising: accessing a predetermined server according to an address recorded on the information recording medium and deciphering the data recorded on the information recording medium by means of key data issued from the server.

[0009]

Meanwhile, the invention in claim 4 is an application to an information recording medium, the information recording medium recorded with data enciphered to be deciphered by the key data issued by a predetermined server, the medium characterized by: recording an address required for accessing the server.

[0010]

Meanwhile, the invention in claim 7 is an application to a reproducing apparatus for reproducing an information recording medium recorded with enciphered data, the apparatus comprising: access means for accessing a predetermined server according to an address recorded on the information recording medium; and deciphering means for deciphering data recorded on the information recording medium by means of key data issued from the server.

[0011]

Meanwhile, the invention in claim 10 is an application to an information recording medium managing method for managing an information recording medium recorded with enciphered data, the method characterized by: issuing key data for deciphering the data by an access according to an address recorded on the information recording medium.

[0012]

According to the structure of claim 1, a predetermined server is accessed according to an address recorded on the information recording medium, and the data recorded on the information recording medium is deciphered by means of key data issued from the server. By merely distributing various ones of enciphered data recorded on the information recording medium, the data recorded on the information recording medium can be utilized by a simple operation. Accordingly, by distributing an information recording medium such as an optical disk recording a tune to be played, for example, at a concert hall, etc. through enciphering, it is possible to simply and positively listen again to the tune pleased at the concert.

[0013]

Meanwhile, according to the structure of claim 4, an information recording medium recording data enciphered to be deciphered by the key data issued by a predetermined server, the medium is characterized by recording an address required

for accessing the server. As for enciphered data recorded on the information recording medium, utilization is possible by simply accessing the server in accordance with a need of the user. Due to this, by distributing an information recording medium such as an optical disk recording a tune to be played, for example, at a concert hall, etc. by enciphering, it is possible to simply and positively listen again to the tune pleased at the concert.

[0014]

Meanwhile, according to the structure of claim 7, there are comprised of access means for accessing a predetermined server according to an address recorded on the information recording medium, and deciphering means for deciphering data recorded on the information recording medium by means of key data issued from the server. By merely distributing various ones of data enciphered on the information recording medium, the data recorded on the information recording medium can be utilized by a simple operation. Accordingly, by distributing an information recording medium such as an optical disk recording a tune to be played, for example, at a concert hall, etc. by enciphering, it is possible to simply and positively listen again to the tune that was pleasing at the concert.

[0015]

Meanwhile, according to the structure of claim 10, key data for deciphering the foregoing data is issued by an access

according to an address recorded on the information recording medium. By merely distributing various ones of data enciphered on the information recording medium, the data recorded on the information recording medium can be utilized by a simple operation. Accordingly, by distributing an information recording medium such as an optical disk recording a tune to be played, for example, at a concert hall, etc. by enciphering, it is possible to simply and positively listen again to the tune pleased at the concert.

[0016]

[Mode for Carrying Out the Invention]

Hereunder, embodiment of the present invention will be described in detail while referring to the drawings properly.

[0017]

(1) Configuration of the Embodiment

Fig. 1 is a block diagram showing a music providing system according to an embodiment of the invention. In this music providing system 1, the musical tunes to be played in the concert at a concert hall, for example, are to be recorded to a compact disk 2 as an information recording medium into distribution so that, of among the tunes recorded on the compact disk 2, a tune the user desires can be listened in response to user's operation.

[0018]

Here, as shown in Fig. 2, the compact disk 2 has an

information recording surface divided as an application program storage area and a music data storage area. In this application program storage area are recorded a predetermined URL (Uniform Resource Locator), a setup program and a deciphering program. Here, the URL is an address for specifying a server 4, referred to later, and further specifying a page as to the compact disk 2 from the pages recorded in a database 6.

[0019]

The setup program is an application program for executing a series of process procedure, referred to later. By executing the process procedure, the setup program starts up a WWW (World Wide Web) browser and acquires key data from the predetermined server 4, further operating a deciphering program. The setup program is established to automatically boot up at a loading of the compact disk 2 onto the personal computer 3. This allows to listen to the musical tune recorded on the compact disk 2 by a simple operation.

[0020]

Contrary to this, the deciphering program is an application program for deciphering the music data recorded in the music data storage area by the use of key data.

[0021]

Namely, in the music data storage area is recorded music data as to a concert where the compact disk is to be distributed

and tunes to be played in a tour of the concert. Here, the music data is filed as to audio data on a tune-by-tune basis, and further recorded through cipher by means of tune-based key data and further recorded by assigning tune number data as identification data specifying the files.

[0022]

Due to this, the configuration shown in Fig. 2 is to record ten tunes by tune file 1 to tune file 10 wherein the files can be specified by tune number data 1 to tune number data 10.

[0023]

In the music providing system 1, a personal computer 3 is to execute a series of process procedures according to the setup program recorded on the compact disk 2 and make an access to a Web server 4 according to the URL recorded on the compact disk 2. Furthermore, from the Web server 4, the page concerning the compact disk 2 is acquired and displayed. Furthermore, in response to the user's operation on this page, acquired is the key data KY of tune data the user desires. The personal computer 3 deciphers the music data by means of the key data KY. Furthermore, the personal computer 3, when acquiring the key data KY, carries out a billing process through the data communication with the Web server 4.

[0024]

The Web server 4 makes an access to the database 6 by

request of the personal computer 3 and forwards the key data KY, etc. to the personal computer 3. Furthermore, the Web server 4 makes an access to a server of a credit firm 7 and executes a billing process as to the key data KY to be provided to the personal computer 3.

[0025]

Here, the database 6 is architected by recording disk data on each compact disk to be managed by this database 6. Here, the disk data is to be specified by the URL recorded on each compact disk. The disk data is assigned with concert data as information of a concert where the compact disk 2 is to be distributed, key data necessary for deciphering the music data recorded on the compact disk 2, corresponding tune number data and tune data, as shown in Fig. 3.

[0026]

Here, the concert data is constituted by data specifying a concert hall, date and hour, venue, etc. as to the concert where the compact disk 2 is to be distributed, data specifying the tunes to be played at each concert hall in relation to tune number data, data about the order of performances in each concert, and so on.

[0027]

The disk data describes those of data in the HTML (Hyper Text Makeup Language) form. Due to this, as shown in a display screen on the personal computer 3 in Fig. 4, the corresponding

page if opened by an access through the URL recorded on the compact disk 2 makes it possible to confirm a list of concerts where the compact disk 2 is to be distributed. Furthermore, going through the link established in the indication of any among the list of concerts by means of the personal computer 3, the names of the tunes played in the concert can be seen in the order of performances as shown in a similar display screen in Fig. 5.

[0028]

Furthermore, in the tune list display, each tune name is displayed with a menu "Purchase". By selecting the menu, access can be made to a predetermined billing process page.

[0029]

Due to this, the Web server 4 executes a billing process in response to a user's operation made by displaying the page of tune list on the personal computer 3. Furthermore, in the case of executing a billing process correctly, the key data KY corresponding to the tune name displayed is sent to the personal computer 3 on the basis of tune number data.

[0030]

Figs. 6 and 7 are a flowchart showing a process procedure on personal computer 3 to be executed by the setup program recorded on the compact disk 2. The personal computer 3, after powered on, moves from step SP1 to step SP2, where it waits for loading the compact disk 2 by the user. Here, in case the

compact disk 2 is loaded, the personal computer 3 moves to step SP3 where it boots up the setup program, thus moving to step SP4 by means of the setup program.

[0031]

The personal computer 3, in the step SP4, decides whether or not there is a WWW browser as Internet-browsing software on the personal computer 3. Here, in case of obtaining a negative result, the process moves to step SP5 thus ending the process procedure.

[0032]

Contrary to this, in the presence of a WWW browser, an affirmative result is obtained in the step SP4 whereby the personal computer 3 moves to step SP6, to start up the WWW browser. Furthermore, the personal computer 3 at this time starts up the WWW browser by means of the URL recorded on the compact disk 2.

[0033]

Subsequently, the personal computer 3 moves to step SP7, to decide whether or not it is connectable to the Internet. Here, when there is a difficulty in a connection to the Internet due to failing to mount a modem or so, the personal computer 3, upon obtaining a negative result in the step SP7, moves to step SP5 thus ending the process procedure.

[0034]

Contrary to this, when connectable to the Internet,

obtaining an affirmative result in the step SP7, the personal computer 3 moves to step SP8, where a home page due to a designated URL is displayed by the WWW browser. This allows the personal computer 3 to access the server 4 according to an address recorded on the compact disk 2. Furthermore, it accesses the database 6 to thereby open the page (Fig. 4) corresponding to the compact disk 2.

[0035]

The personal computer 3, when the user selects any concert on the page display by means of a WWW browser process, goes along the link established as to the concert and changes the display, thereby displaying a list of tune names noted before on Fig. 5.

[0036]

In case the user selects a menu of purchase in the list display, the personal computer 3 moves to step SP9, thus going through the link established as to the menu and displaying a billing-process menu screen. Here, when the user operates a predetermined menu after inputting the data required for billing process such as user name, password, credit card number, and so on the personal computer 3 forwards those data to the Web server 4. Due to this, in the music providing system 1, a billing process is carried out by the Web server 4.

[0037]

When such a billing process is completed normally, the

personal computer 3 moves to step SP10, to download the key data KY, corresponding to the tune name on which billing process has been done, from the server 4 and stores the key data KY to the incorporated hard disk device.

[0038]

Subsequently, the personal computer 3 moves to step SP11 (Fig. 7) and starts up a deciphering program. In the subsequent step SP12, the saved key data KY is read out and delivered to the deciphering program. Furthermore, on the basis of the tune number data of key number data KY, the corresponding tune data is reproduced from the compact disk and delivered to the deciphering program.

[0039]

Subsequently, the personal computer 3, at step SP12, deciphers the tune data by executing the deciphering program and stores the resulting audio data to the hard disk device, then returning to the step SP5 and ending the process procedure.

[0040]

This makes it possible to reproduce, on the personal computer 3, the audio data recorded in the hard disk device by means of a desired application program.

[0041]

(2) Operation of the Embodiment

In the above configuration, the music providing system 1 (Fig. 1) is to previously encipher, for example, the tune

audio data respectively as to the tunes scheduled to be played by artists in the concert, and record it together with a setup program, deciphering program, etc., thus producing a compact disk 2 (Fig. 2).

[0042]

Furthermore, for each compact disk 2 thus produced, the data of concert list (Fig. 4) for distribution and the data of performance tune name list in each concert linked to the concert list are recorded, together with the key data for deciphering the tune data recorded on the compact disk 2 and tune number data as corresponding identification data, in the database 6. Furthermore, the database 6 is architected to display a concert list and a performance tune list by means of the data thus recorded in the database 6. Furthermore, setting is made to allow an access to the page of the concert list depending upon the URL recorded on the compact disk 2.

[0043]

Namely, the compact disk 2 is prepared by recording an URL specifying a Web server 4 accessibly to the page of the corresponding concert list recorded in the database 6 and further specifying the page of a concert list. Meanwhile, for each tune data, the tune number data corresponding to the tune number data recorded in the database 6 is assigned and recorded (Fig. 2).

[0044]

Due to those, in the music providing system 1, the tunes to be played in each concert are recorded on the compact disk 2 so that the corresponding tune can be listened to only when acquiring key data by accessing the server 4. For example, the compact disk 2 is to be distributed free of charge in the concert.

[0045]

Due to this, for the user, in the case of listening again a tune pleased at the concert for example, there is only a need to acquire the corresponding key data KY by accessing the server 4 according to the URL recorded on the distributed compact disk 2 without the necessity to especially visit a record store. Meanwhile, even when not knowing an album name, it is possible to purchase and listen to the objective, pleasing tunes only. This makes it possible to simply and positively listen again to the pleasing tune heard at a concert hall or the like.

[0046]

At this time, the URL is recorded on the compact disk 2. By browsing the page concerning the compact disk 2 besides the server 4, it is possible to simplify the operation of especially searching through the database 6 and selecting a desired tune. By a simplified operation, correspondingly, the desired tune can be positively purchased.

[0047]

Meanwhile, by establishing the corresponding key data

through file-based enciphering in unit of tune, only a desired tune can be listened to selectively.

[0048]

Meanwhile, by page setting, a list of concerts concerning the compact disk 2 can be displayed. Furthermore, by displaying a tune-name list having concert performance tune names displayed in the order of performance and prompting the user for selection, key data can be acquired as to a desired tune on the basis of the order of performance, even when not knowing tune names, thereby allowing for listening to the pleasing tune.

[0049]

Namely, in the music providing system 1, when the compact disk 2 is loaded on the personal computer 3 (Fig. 6), the setup program recorded on the compact disk 2 is boosted up. By a URL recorded on the compact disk 2, the server 4 is accessed. Furthermore, access is made to the page of a list of concerts concerning compact disk 2 recorded in the database 6. In the music providing system 1, in case this page is displayed (Fig. 4) and the user selects an indication of a concert he/she visited, a tune list for the concert is displayed in the performance order through the link established on the indication (Fig. 5). Furthermore, in case the user operates the purchase menu on display, executed is a billing process as to purchasing this tune. Here, in the case a billing process

is done correctly, the music providing system 1 allows to download the corresponding key data KY from the Web server 4 onto the personal computer 3. By the key data KY, the tune selected by the user is deciphered and downloaded to the hard disk device of the personal computer 3. This allows the user to listen to the tune at any time.

[0050]

(3) Effect of the Embodiment

According to the above configuration, a predetermined server is accessed according to an address recorded on the compact disk. Key data is issued from the server, to decipher the data recorded on the compact disk, thereby enabling to simply and positively listen again to the tune that was pleasing at the concert hall or the like, for example.

[0051]

At this time, by an access through a URL specifying the server and a page corresponding to the compact disk 2, a desired tune can be easily selected.

[0052]

Meanwhile, by file-based enciphering in unit of tune, only a desired tune can be purchased selectively.

[0053]

(4) Other Embodiments

Incidentally, the above embodiment described the case that the deciphered tune data is downloaded onto and held in

the hard disk device. The invention is not limited to this but deciphering may be made each time listening is done. Incidentally, in this case, the enciphered tune data may be held in the hard disk device. Meanwhile, each time of listening, the tune data held on the compact disk 2 may be reproduced and deciphered.

[0054]

Meanwhile, the above embodiment described the case that the deciphering program is recorded on the compact disk. However, the invention is not limited to this but it may be downloaded together with key data.

[0055]

Meanwhile, the above embodiment described the case of merely downloading the key data. However, the invention is not limited to this but the key data may be provided by enciphering so that the enciphering can be released on the personal-computer 3 side.

[0056]

Meanwhile, the above embodiment described the case that tune data is enciphered in unit of a tune, or one file. However, the invention is not limited to this but tune data may be enciphered in unit of a plurality of tunes, i.e. in unit of a plurality of files.

[0057]

Meanwhile, the above embodiment described the case that

the page concerning the compact disk is accessed to display a concert list thereby displaying a tune-name list from that display. However, the invention is not limited to this but direct access may be made to the page of tune names and of prompting for purchase or non-purchase from the URL recorded on the compact disk. Incidentally, in the case of accessing by omitting the concert-list page in this manner, application is considered possible where there is no change in the tunes to be played or in the order of performance at the concert, or where only a small number of tunes can be recorded on the compact disk because of a piece of music which is long in performance time, e.g. classical music.

[0058]

Meanwhile, the above embodiment described the case that music is provided by use of a compact disk as an information recording medium. However, the invention is not limited to this but can be applied broadly to the cases of providing various kinds of data by a variety of information recording mediums, including various optical disks, memory cards as card-formed recording mediums mounting memories, and so on.

[0059]

Meanwhile, the above embodiment described the case for providing music. However, the invention is not limited to this but can be applied broadly to the cases of providing various kinds of application programs, providing data of a database,

etc. Incidentally, in this case, it can be considered to encipher the data of application program in unit of a directory, or in unit of a plurality of files.

[0060]

Meanwhile, the above embodiment described the case to record tune number data as identification data specifying those of tune data. However, the invention is not limited to this but may use file names or directory names (holder names) for identification data.

[0061]

[Effect of the Invention]

As described above, according to the present invention, access is made to a predetermined server according to an address recorded on an information recording medium. By issuing key data and deciphering the data recorded on the information recording medium, the pleasing tune heard at a concert hall, for example, can be again listened to simply and positively.

[Brief Description of the Drawings]

[Fig. 1]

A block diagram showing a music providing system according to an embodiment of the present invention.

[Fig. 2]

A chart showing the content of a compact disk 2 in the music providing system of Fig. 1.

[Fig. 3]

A chart showing the content of disk data recorded in a database in the music providing system of Fig. 1.

[Fig. 4]

A plan view showing the display of a concert list configured by the disk data of Fig. 3.

[Fig. 5]

A plan view showing the display of a tune list configured by the disk data of Fig. 3.

[Fig. 6]

A flowchart showing a process procedure in a personal computer in Fig. 1.

[Fig. 7]

A flowchart showing a process procedure continued from Fig. 6.

[Explanation of Reference Numerals and Signs]

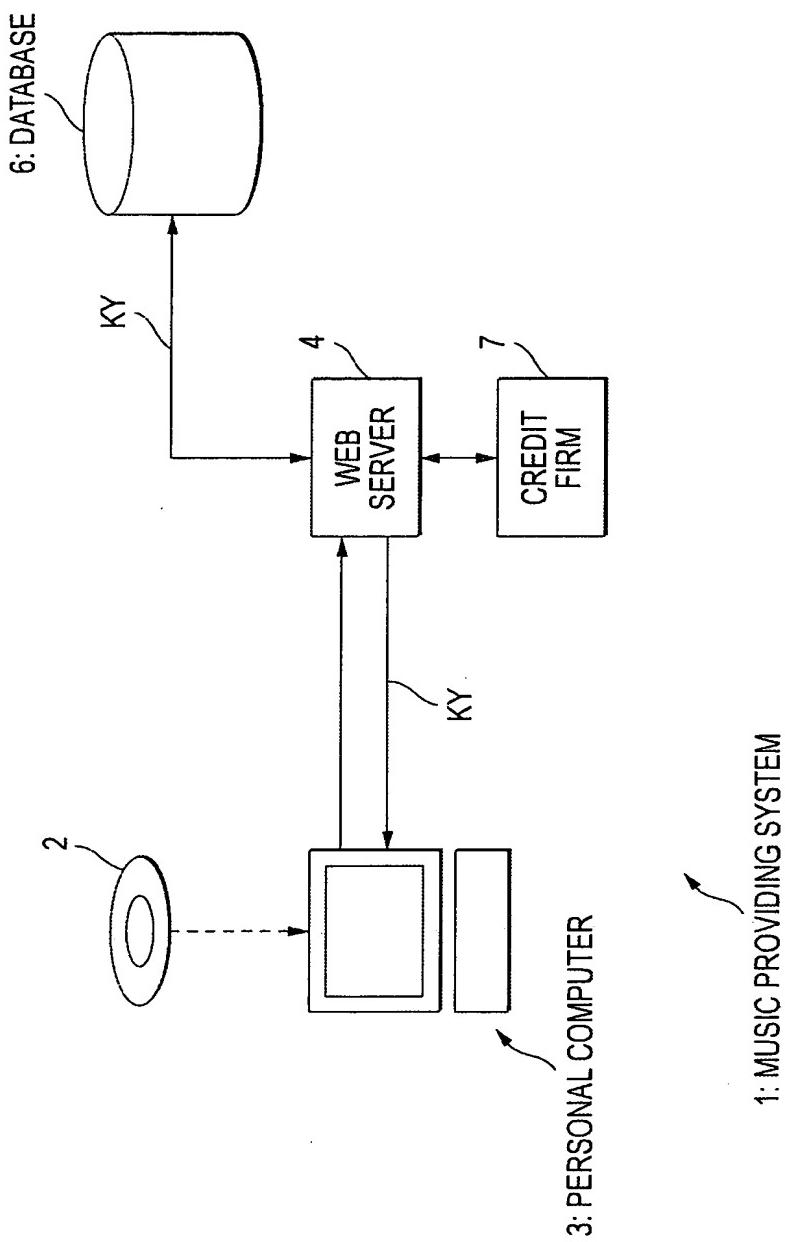
1 ... Music providing system, 2 ... Compact disk, 3 ... Personal computer, 4 ... Web server, 6 ... Database.



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FIG. 1

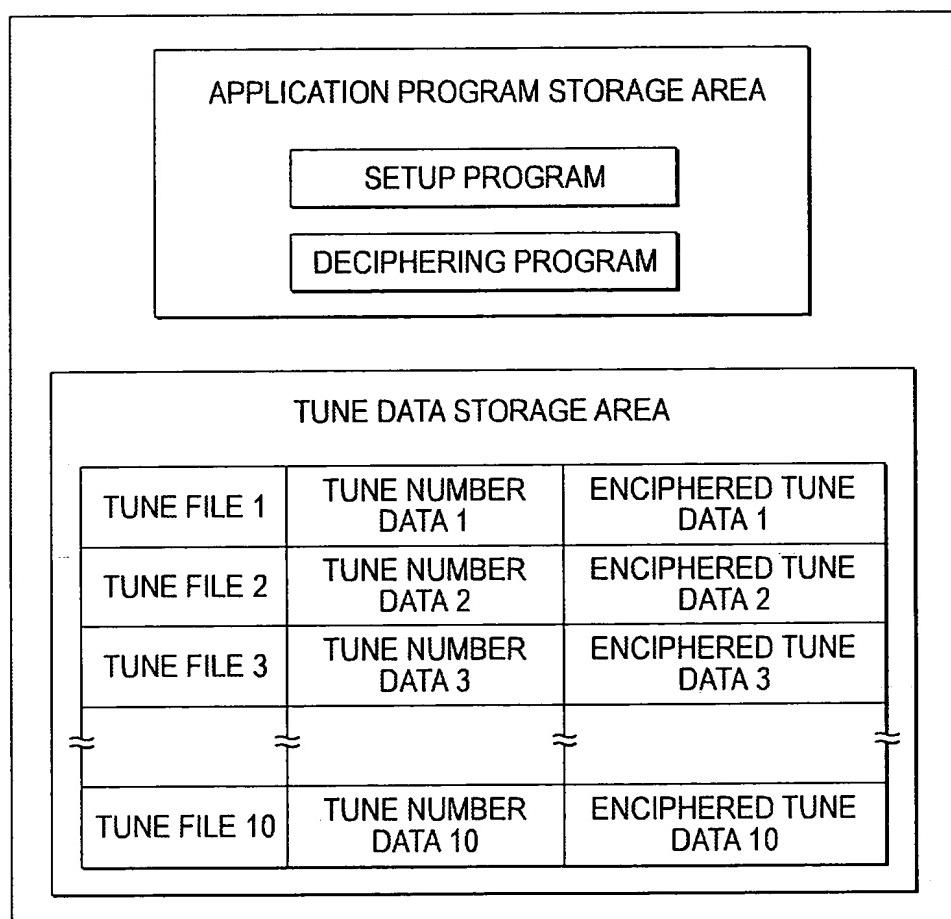




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FIG. 2





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FIG. 3

DISK DATA		
CONCERT DATA		
TUNE NUMBER DATA 1	KEY DATA 1	TUNE NAME 1
TUNE NUMBER DATA 2	KEY DATA 2	TUNE NAME 2
TUNE NUMBER DATA 3	KEY DATA 3	TUNE NAME 3
≈	≈	≈
TUNE NUMBER DATA 10	KEY DATA 10	TUNE NAME 10



SOOP1278US00

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FIG. 4

CONCERT VENUE / DATE-&TIME LIST

SEPTEMBER				
DATE	VENUE	OPEN / START	WHERE TO CALL	
SEPTEMBER 2 (THU)	000 CULTURAL CENTER	18:00 / 18:30	000000	
SEPTEMBER 4 (SAT)	XXX FESTIVAL HALL	17:45 / 18:30	XXXXXX	
SEPTEMBER 5 (SUN)	00 FESTIVAL HALL	16:45 / 17:30	000000	
SEPTEMBER 10 (FRI)	ΔΔ SUNPALACE	18:30 / 19:00	ΔΔΔΔΔ	
SEPTEMBER 11 (THU)	00 PREFECTURAL THEATER, PERFORMANCE HALL	18:00 / 18:30	000000	



SOOP1278US00

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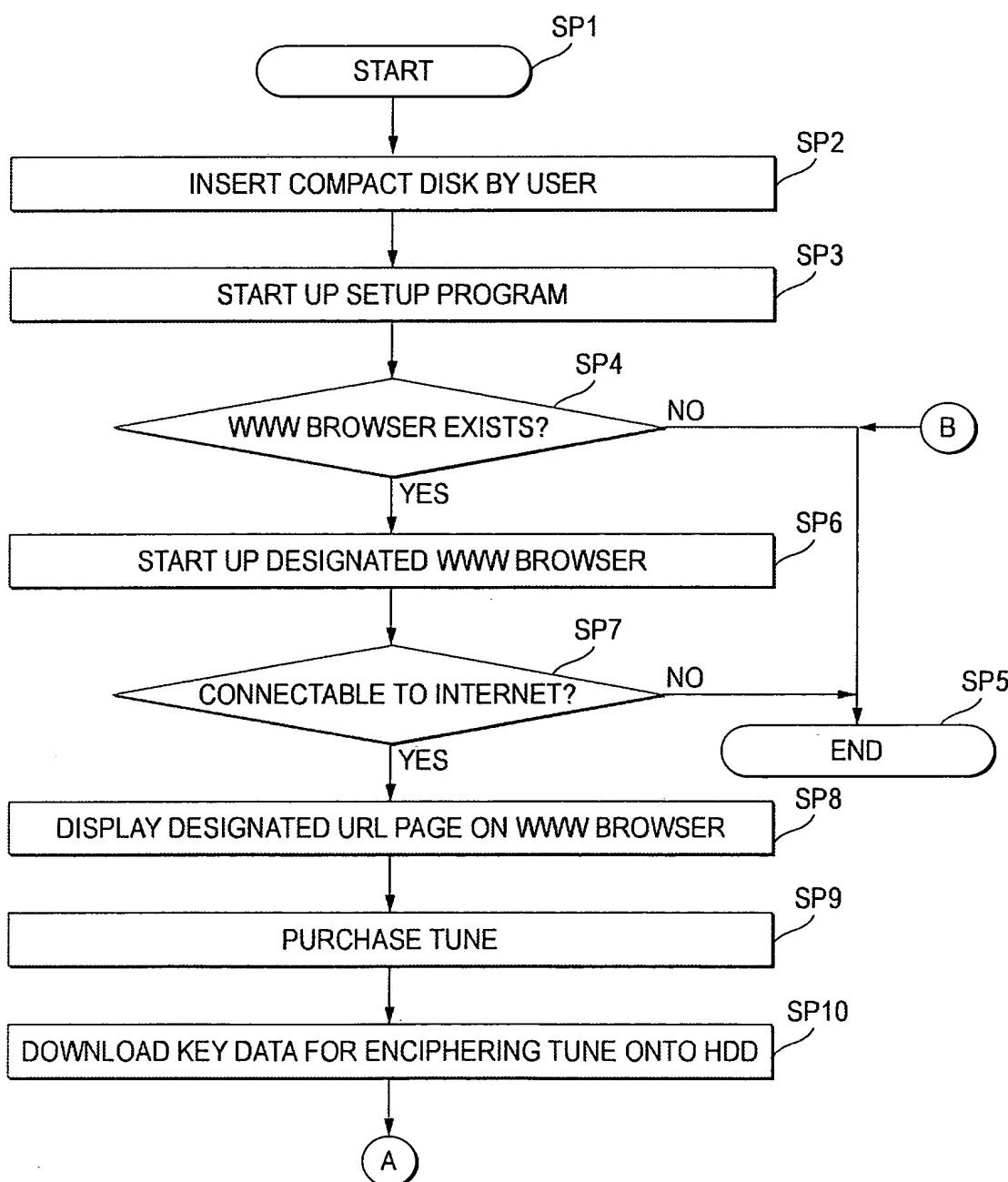
FIG. 5

CONCERT PROGRAM LIST

1999/09/05 OO FESTIVAL HALL PROGRAM LIST

1. 0 0 0 0 ••• PURCHASE
2. □ □ □ □ □ ••• PURCHASE
3. * * * * * ••• PURCHASE
4. Δ Δ Δ Δ Δ Δ Δ Δ ••• PURCHASE
5. 0 0 0 0 ••• PURCHASE

FIG. 6

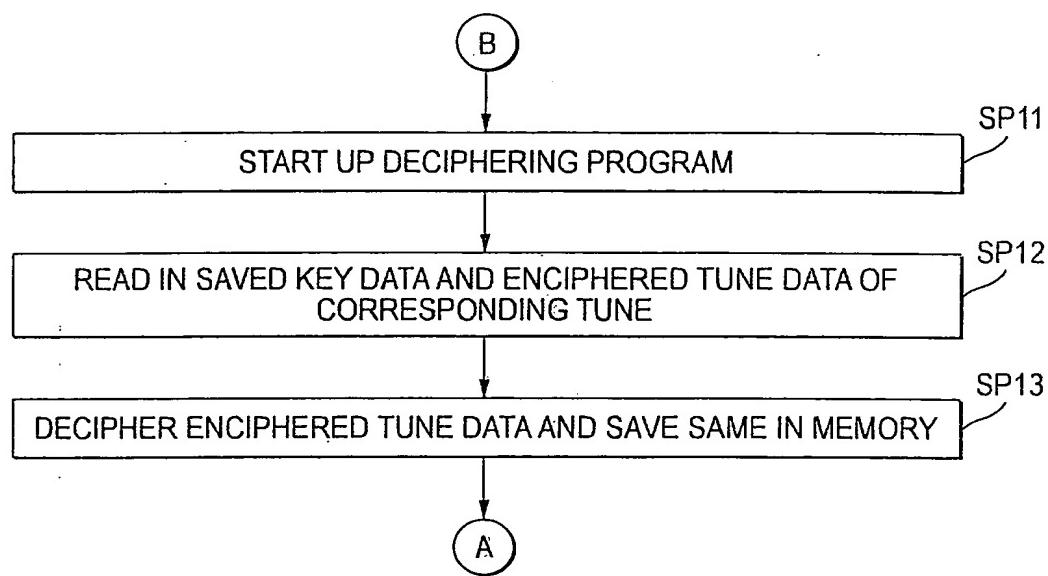




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FIG. 7



[Designation of Document] ABSTRACT

[Abstract]

[Problem] The present invention relates to an information-recording-medium reproducing method, information recording medium, reproducing apparatus and information-recording-medium managing method. By applying to a system for reproducing an optical disk recorded with pieces of music for example, it is possible to simply and positively listen again to a tune pleased in the listening at a concert hall, etc.

[Means for Resolution] In the present invention, a predetermined sever 4 is accessed according to an address recorded on an information recording medium 2. By issuing key data KY from the server 4, the data recorded on the information recording medium 4 is deciphered.

[Selected Drawing] Fig. 1